INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/003208

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01L27/092, H01L27/06, H01L29/786	
According to International Patent Classification (IPC) or to both national classification and IPC	
B. FIELDS SEARCHED	
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H01L27/092, H01L27/06, H01L29/786	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched	
Jitsuyo Shinan Koho 1922—1996 Jitsuyo Shinan Toroku Koho 1996—2004 Kokai Jitsuyo Shinan Koho 1971—2004 Toroku Jitsuyo Shinan Koho 1994—2004	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)	
C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Category* Citation of document, with indication, where approx	
X JP 10-189957 A (Mitsubishi Ele Y 21 July, 1998 (21.07.98), Par. Nos. [0015] to [0017] Figs. 1 to 5 (Family: none)	ctric Corp.), 1-3,5 4
Y JP 2000-332132 A (International Machines Corp.), 30 November, 2000 (30.11.00), Par. Nos. [0033] to [0038]; Fig & US 6239649 B1 & KR 10 & TW 441130 B	s. 7 to 9
Further documents are listed in the continuation of Box C.	See patent family annex.
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international "X filing date "L" document which may throw doubts on priority claim(s) or which is	date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family
02 June, 2004 (02.06.04)	ate of mailing of the international search report 22 June, 2004 (22.06.04)
Name and mailing address of the ISA/ Japanese Patent Office	uthorized officer
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INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

International application No.

PCT/JP2004/003208 C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. JP 61-289658 A (Fujitsu Ltd.), A 1-5 19 December, 1986 (19.12.86), Full text; all drawings (Family: none) JP 10-229166 A (NEC Corp.), A 1-5 25 August, 1998 (25.08.98), Full text; all drawings & US 5912591 A & CN 1190825 A & KR 98071343 A